

Derwent Record

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Derwent Title: Three dimensional magnetic system - has plates in rod packets shifted in horizontal plane, forming convex and concave sides

Original Title: ☒ SU1312653A1: SPATIAL MAGNETIC SYSTEM

Assignee: CHILINGARYAN R K Individual

Inventor: CHILINGARY R K;

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IPC Code: H01F 27/24 ;

Derwent Classes: X12;

Manual Codes: X12-C01A(Cores)

Derwent Abstract: (SU1312653A) Magnetic circuit comprises two wound yokes of triangular shape and three sectionalised rods (2) arranged in the yoke rounded peaks (3). The rods are made from various sets of triangular packets (4,5), consisting of plates (6). The latter are shifted in the packets in a horizontal plane in such a way, that they form convex and concave sides. The sides are placed on opposite arcs (7,8) of the circle (9). The convex sides are aligned with the rounded yoke peaks along the axis (10). In the three-dimensional magnetic circuit consisting of yokes and rods the largest part of the rod section is shifted towards the yoke peripheral zone. The smaller part of the rod section is under the yokes central zone. The magnetic flux excited in the rods is distributed along the yoke section proportionally to the rod parts, positioned under each of the yoke zone. USE/Advantage - Three-dimensional magnetic system can be used in low power transformers and reactors. Power losses and noise level are reduced due to magnetic flux distribution equalisation. Bul.19/23.5.87

Images:

Dwg.1/1

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